IN THE CLAIMS

1 (Currently Amended). A method comprising:

forming a phase change memory including a phase change storage element and a phase change threshold switch; and

forming a damascene via to a conductive line in the periphery of <u>said</u> -a- phase change memory.

Claim 2 (Canceled).

- 3 (Currently Amended). The method of claim <u>1</u> 2 including forming said switch over said element.
- 4 (Currently Amended). The method of claim 3 including forming a pore over a substrate, said pore having a dimension smaller than the feature size possible with available lithographic techniques.
- 5 (Original). The method of claim 4 including forming said pore by forming an aperture through an insulator and forming a sidewall spacer in said aperture.
- 6 (Currently Amended). The method of claim 5 including forming <u>a</u> the lower electrode of said phase change storage element in said pore.
- 7 (Currently Amended). The method of claim $\underline{1}$ —including forming a barrier layer between said threshold switch and said storage element.
- 8 (Currently Amended). The method of claim 1 including forming an upper electrode over said phase change storage element, said upper electrode having that has a vertical extent at least twice its horizontal extent.

- 9 (Currently Amended). The method of claim <u>1</u>—2 including forming an upper electrode over said phase change storage element and said threshold switch, said electrode having sidewall spacers.
- 10 (Original). The method of claim 9 including using said sidewall spacers as a mask to etch through underlying layers.
- 11 (Currently Amended). The method of claim 1 including forming a plurality of memory cells as a plurality of integrated islands spaced from one another.
- 12 (Original). The method of claim 11 including filling the regions surrounding said islands with an insulator.
- 13 (Currently Amended). The method of claim 12 including forming said insulator to a height over the upper extent of said upper electrodes islands.
- 14 (Currently Amended). The method of claim 13 including forming grooves through said insulator down to and past the upper extent of said upper electrodes islands.
- 15 (Original). The method of claim 13 including forming a vertical groove in a memory array and a periphery.
- 16 (Original). The method of claim 15 including filling said groove in said periphery with a sacrificial light absorbing material.
- 17 (Original). The method of claim 16 including etching said groove in said periphery into said sacrificial light absorbing material.
- 18 (Currently Amended). The method of claim 17 wherein forming a damascene via includes filling said groove grooves with a conductive material.

- 19 (Original). The method of claim 18 including forming said groove in said periphery deeper than said grooves in the memory array.
- 20 (Original). The method of claim 19 including forming said grooves in said periphery to a depth below the upper extent of said upper electrode and above the lower extent of said upper electrode.
 - 21 (Currently Amended). An apparatus comprising:

a phase change memory including a phase change storage element and a phase change threshold switch;

a phase change material;

a conductive line coupled to said phase change material storage element and said phase change threshold switch; and

a damascene via to said conductive line.

Claim 22 (Canceled).

- 23 (Currently Amended). The memory of claim <u>21</u> 22 wherein said switch is formed over said element.
- 24 (Currently Amended). The memory of claim 23 including a substrate, a pore over said substrate, said pore having a dimension smaller than the feature size possible with available lithographic techniques.

Claim 25 (Canceled).

- 26 (Currently Amended). The memory of claim <u>24</u> 25 including an electrode for said phase change storage element in said pore.
- 27 (Currently Amended). The memory of claim <u>21</u> 22 including a barrier layer between said threshold switch and said storage element.

28 (Currently Amended). The memory of claim 21 including an upper electrode having a vertical extent at least twice its horizontal extent, said upper electrode formed over the phase change storage element.

29 (Original). The memory of claim 21 wherein said damascene via includes a metal line extending through an insulator.

Claims 30-36 (Canceled).